

Accepted Manuscript

Title: Antimicrobial Films Based on Cellulose-Derived Hydrocolloids. A Synergetic Effect of Host-Guest Interactions on Quality and Functionality

Author: Roi Rutenberg Solange Bernstein Nachman Paster
Eli Fallik Elena Poverenov



PII: S0927-7765(15)00395-1
DOI: <http://dx.doi.org/doi:10.1016/j.colsurfb.2015.06.022>
Reference: COLSUB 7152

To appear in: *Colloids and Surfaces B: Biointerfaces*

Received date: 1-4-2015
Revised date: 8-6-2015
Accepted date: 10-6-2015

Please cite this article as: R. Rutenberg, S. Bernstein, N. Paster, E. Fallik, E. Poverenov, Antimicrobial Films Based on Cellulose-Derived Hydrocolloids. A Synergetic Effect of Host-Guest Interactions on Quality and Functionality, *Colloids and Surfaces B: Biointerfaces* (2015), <http://dx.doi.org/10.1016/j.colsurfb.2015.06.022>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

A series of antimicrobial films based on biodegradable cellulose-derived hydrocolloids was prepared

β -cyclodextrin was used to successfully enhance Propionic acid's content in films

β -cyclodextrin was found to prolong Propionic acid's release rate

The films' physical, mechanical, morphological and antimicrobial properties were evaluated

β -CD and PA in hydrocolloids matrix demonstrated a synergetic effect resulting in qualitative and effective bio-active films

Download English Version:

<https://daneshyari.com/en/article/6981095>

Download Persian Version:

<https://daneshyari.com/article/6981095>

[Daneshyari.com](https://daneshyari.com)